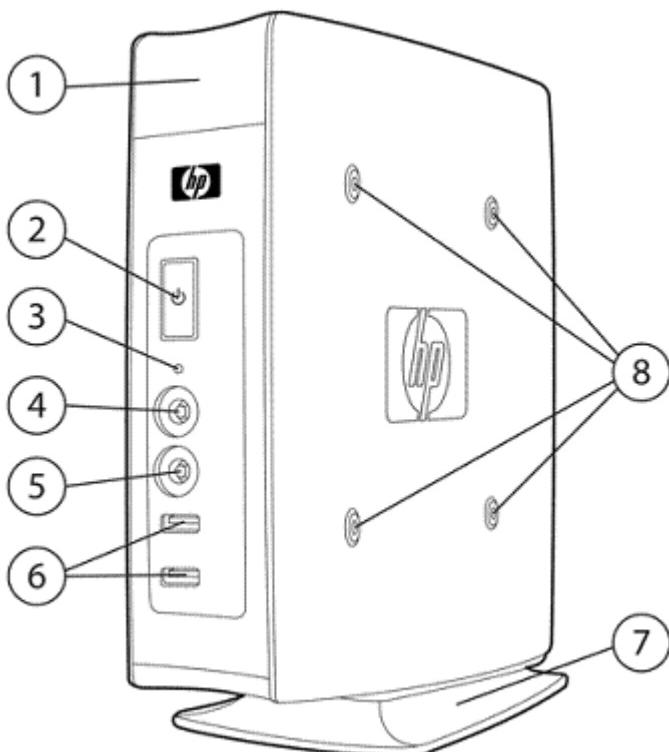


Overview

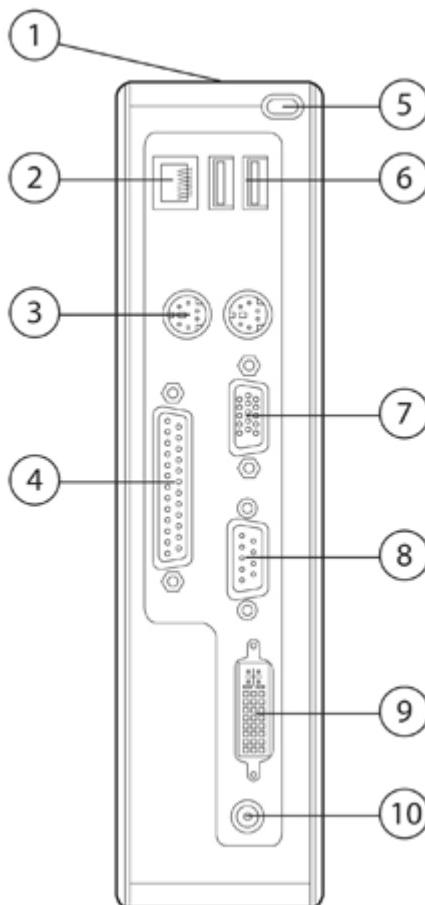
Introduction

The HP t5145 Thin Client with HP ThinConnect is simple, straightforward network access solution designed to manage and support efficient ICA, RDP and basic VDI network connections. Once configured, users can quickly establish a connection to network resources. The HP t5145 can be used in a stateless mode, with all global and user-specific settings downloaded each time a user logs on, making this our easiest client to deploy and manage. With its leading edge design, the HP t5145 is an ideal appliance for Microsoft, Citrix and basic VDI environments that demand an aggressive price and easy management.



Front

1. Secure USB compartment (2 USB connectors)
2. Power button with LED
3. Flash storage activity indicator
4. Audio connector (mic in)
5. Audio connector (headphone out)
6. USB connectors (2)
7. Vertical stand (removable)
8. VESA mounting points (4)



Back

1. Cable lock slot
2. 10/100 Ethernet RJ-45 connector
3. PS/2 connectors (2)
4. Parallel port
5. Cable management feature
6. USB connectors (2)
7. VGA connector
8. Serial port
9. DVI-D connector
10. +12V DC power input

Overview

At A Glance

- HP ThinConnect operating system
- VIA Eden 500 MHz processor
- 512 MB System memory (64 MB reserved for video)
- 128 MB Flash memory
- Operates in a familiar local mode or as a stateless, locked-down client making it perfect for office environments with open seating
- ENERGY STAR® qualified
- Power saving mode with fast wakeup
- Includes one parallel, one serial, two PS/2, and six USB 2.0 ports (two in back, two in front, and two in secure USB compartment – great for safeguarding USB wireless and Flash devices)
- MIC in and Audio out ports in front
- Built in dual monitor support (VGA and DVI-D native)
- HP Device Manager, Altiris Deployment Solution, and HP ThinState Tools simplify deployment and management
- Exclusive offers in-box, easy-to-use image deployment and recovery tools
- HP Total Care Warranty and Services: limited three-year hardware warranty in most regions. HP Care Pack Services extend service contracts which go beyond your standard warranties. For more details visit: www.hp.com/go/lookuptool.

Models

NK812AA#ABA	Model Name	HP t5145 Thin Client
FQ812AT#ABA (SmartBuy or Promo)	Processor	VIA Eden 500 MHz
	Flash	128 MB
	System Memory	512 MB (64 MB reserved for video)
	Operating System	HP ThinConnect
	Keyboard	Keyboard (USB or PS/2) varies by region
	Mouse	Mouse (USB or PS/2) varies by region
	Side Panels	VESA standard mounting holes

Options

	NOTE: Options are available as separate purchase ¹	Part Number
Accessories	HP Quick Release Kit HP Quick Release/VESA Panels Kit (for mounting models that ship with non-VESA panels) HP Integrated Work Centre Stand 50 Watt External Power Supply	EM870AA FV248AA GN783AA FJ851AA#ABA
Third-Party Communications	Belkin USB Wireless 802.11b/g ^{2,3} (Security: WEP, WPA & WPA2 Only) (North America, Singapore, Hong Kong, Malaysia, Philippines, India, Korea, China, Taiwan, Australia, New Zealand) To order, visit www.belkin.com , search for HP4050, and order online Belkin USB Wireless 802.11b/g ^{2,3} (Security: WEP, WPA & WPA2 only) (Germany, Netherlands, Spain, Italy, France, Poland, Hungary, Czech, Russia, Bulgaria, Romania, United Kingdom, Sweden/Scandinavia) To order, visit www.belkin.com , search for HP4050ea, and order online	Belkin part number: HP4050 Belkin part number: HP4050ea
Touch Screens	ELO Touch 1529L Flat Panel ² HP L5006tm LCD Touchscreen	E926109 RB146AA
Security	HP USB Smartcard Keyboard SCM USB Smart Card Reader SCR3312 HP/Kensington Cable Lock	ED707AA 904622 PC766A
Input Devices	HP PS/2 Standard Keyboard HP USB Standard Keyboard HP USB Smartcard Keyboard HP PS/2 2-Button Scroll Mouse HP PS/2 2-Button Optical Scroll Mouse HP USB 2-Button Optical Scroll Mouse	DT527A#ABA DT528A#ABA ED707AA#ABA DD440B EY703AA DC172B
Care Pack Services ⁴	9x5 Next-Business-Day Advanced Exchange – 3 Years 9x5 Next-Business-Day On-Site Coverage – 3 Years	

¹ The warranties for HP branded products are set forth in the express limited warranty statements accompanying such products. Although third-party products may work effectively on HP thin clients, these third-party products are provided "AS IS." HP does not support or warrant third-party products, including the interoperability of such products with HP thin clients. However, third-party manufacturers and vendors may provide their own warranties and support directly to you. Please contact the manufacturers or vendors for hardware or software support on their products.

² This is a third-party product. Product, warranty and support available directly from third-party vendor.

³ Wireless access point and Internet service sold separately. Roaming not supported. See Administrator's Guide for supported wireless features. Not certified in Korea, Malaysia, New Zealand, Pakistan, or Taiwan.

⁴ Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: www.hp.com/hps/carepack.



Technical Specifications

Processor	VIA Eden 500 MHz
Chipsets	VIA VX800 north/south bridge unified chip
Memory	Flash 128 MB System Memory 512 MB (64 MB reserved for video)
Graphics	VIAChrome9 HC3 Integrated Graphics Processor Supports high-resolution monitors up to 2048 x 1536 or up to 32 bit colour depth NOTE: The resolutions your monitor displays and the multi-display modes (i.e., clone, spanning, extended/independent) supported in ICA, RDP or locally may vary. The graphics controller supports these resolutions: Resolutions 800 x 600, 960 x 600, 1024 x 768, 1152 x 864 1280 x 720, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024 1360 x 768, 1366 x 768, 1368 x 768 1400 x 1050, 1440 x 900 1600 x 1200, 1600 x 1024, 1680 x 1050 1920 x 1080, 1920 x 1200, 1920 x 1440 2048 x 1536
Input/Output/ Peripheral Support	Keyboard Keyboard (USB or PS/2) varies by region Mouse Mouse (USB or PS/2) varies by region Printer Local and/or network printers (RDP, ICA, LPD) Thin Print .print TCP client included Video VGA-type video output (DB-15) DVI-D digital video output
Audio	Output Internal amplified speaker, 1/8-inch mini-jack, 24-bit stereo, 192-kHz sample rate Input 1/8-inch microphone mini-jack, 20-bit stereo, 96-kHz sample rate
Hardware Security	Security lock slot (cable lock sold separately) Secure USB compartment with 2 USB ports
Server Based Computing Protocols	Citrix ICA RDesktop
Networking	10/100 Ethernet (RJ-45) TCP/IP with Dynamic DNS and DHCP support Wake on LAN PXE
I/O ports and connectors	6 USB 2.0 ports, 1 serial, 1 parallel, 2 PS/2, 1 RJ45, 1 VGA, 1 DVI-D, 1 headphone, 1 microphone
Resident Operating System	HP ThinConnect
OS Languages	English
Software Included	Operating System/ Protocols/Components HP ThinConnect Citrix ICA 10.42 RDesktop 1.6 Security Support for Stateless Security Mode (requires setup to enable) and locked file system



Technical Specifications

	Session Allocation Managers/Session Brokers	HP Session Allocation Manager (SAM) Citrix XenDesktop through PNagent VMware View Manager 3.0 Leostream Desktop Connection Broker Support for Provision Networks (Quest) broker (contact vendor directly for broker sale and support)
	Management	HP Device Manager agent 4.0 Altiris Deployment Solution agent with full client license. Management console available as free download from Altiris at: www.altiris.com/hptc HP ThinState for rapid deployment
Dimensions H x W x D	Without stand	8.25 x 2.05 x 8.5 in (209.55 x 52.07 x 215.90 mm)
	With stand	8.65 x 2.05 x 8.5 in (219.70 x 52.07 x 215.90 mm)
Weight (approximate)	With stand	3.40 lbs (1.54 kg)
Power*	Operating voltage range	100-240 VAC
	Rated line frequency	50-60 Hz
	Power output (max)	50W
	Rated output current (max)	4.16A
	Output voltage	+12V DC
Environmental	Operating temperature range	50° to 104° F (10° to 40° C)
	Non-operating temperature range	-22° to 140° F (-30 to 60° C)
	Humidity (non-condensing)	10% to 90% operating/5% to 95% non-operating
Regulatory Compliances	Product Safety	International: IEC60950-1, 12:2005, with CB Certificate and all National Deviations US and Canada: UL 60950-1 / CAN/CSA 22.2 No. 60950-1-03, 07:2006, Bi-National Standard for ITE Safety in the US and Canada and is published jointly by UL and CSA. Europe: EN 60950-1, 06:2003, Information Technology Equipment
	Ergonomics	The product has been tested and found to comply with all applicable GS ergonomic requirements.
	RF Interference	FCC Class B, CE Mark, VCCI
Warranty	Three-year limited hardware warranty.	
	NOTE: Certain restrictions apply. Consult the HP Customer Support Centre for details.	

Technical Specifications – Environmental Data

Eco-Label Certifications & Declarations This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- ENERGY STAR® Category A

Additional Compliance

This product is in compliance with:

- Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.
- Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

Energy Consumption

	115 VAC	230 VAC	100 VAC
Idle State:	10.59 W	10.99 W	10.60 W
Off Mode:	1.33 W	1.34 W	1.34 W

NOTE: This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled.

NOTE: The actual power consumption at your location could vary and is dependent on many factors including but not limited to software load on the thin client, attached peripherals, and environmental factors.

Heat Dissipation

Idle State:	36.1 BTU/hr	37.5 BTU/hr	36.2 BTU/hr
Off Mode:	4.5 BTU/hr	4.6 BTU/hr	4.6 BTU/hr

NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Batteries

This product complies with ISO standards:

- EU Directive 91/ 157/ EEC
- EU Directive 93/ 86/ EEC
- EU Directive 98/ 101/ EEC

Batteries used in the product do not contain:

- Mercury greater than 5ppm by weight
- Cadmium greater than 10ppm by weight
- Lead greater than 4000ppm by weight.

Battery size: CR2032 (coin cell)

Battery type: Lithium

Recycled material

Product	<ul style="list-style-type: none">• This product contains 0% recycled materials (by weight).• This product is 98.1% (by weight) recyclable when disposed of properly at end of life.
Packaging	<ul style="list-style-type: none">• The EPE foam packaging material contains at least 5% (by weight) post-consumer recycled content.• The corrugated paper packaging materials contains at least 80% (by weight) post-consumer recycled content.• The packaging for this product is 94% (by weight) recyclable when disposed of properly.

Technical Specifications – Environmental Data

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. From July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBeS)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.



Technical Specifications – Environmental Data

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html ISO 14001 certificates: www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html
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